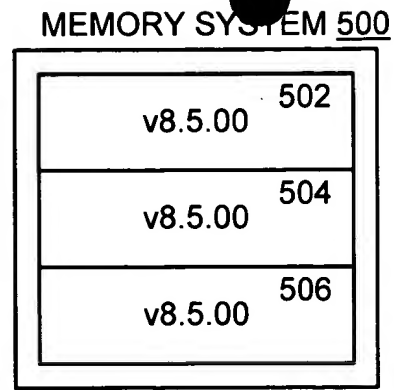
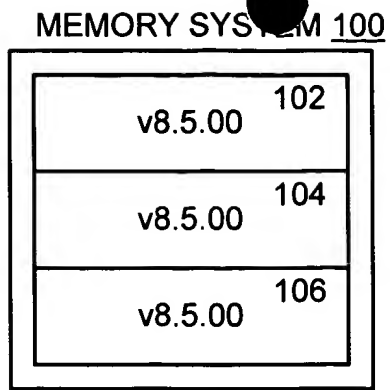
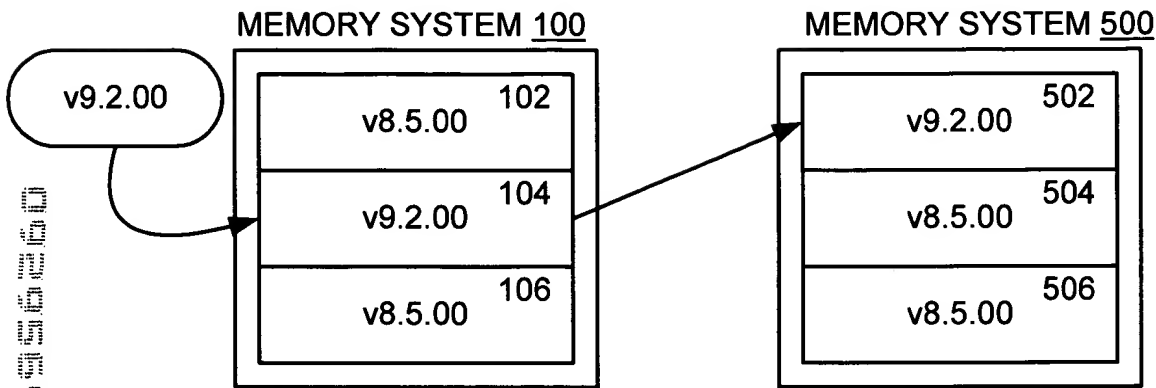


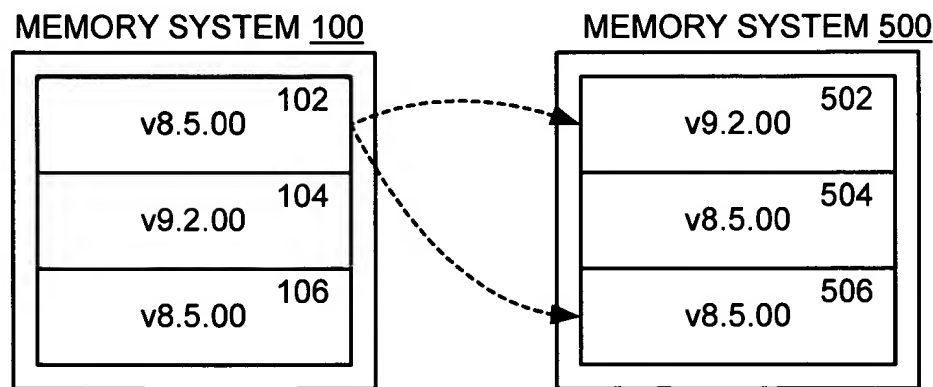
**Fig. 1**



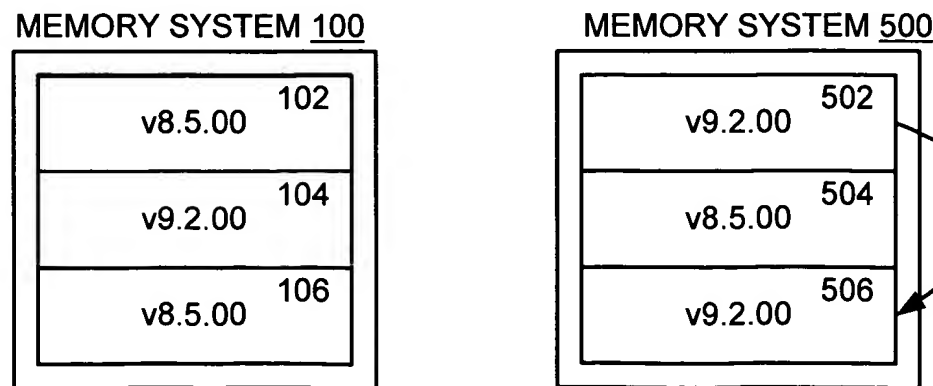
**Fig. 2a**



**Fig. 2b**



**Fig. 2c**



**Fig. 2d**

Patent 10,555,555

```
graph TD; START([START]) --> 600[LOAD ACTIVE ROM AND STANDBY RAM WITH NEW REVISION]; 600 --> 602[UPDATE STANDBY RAM AND STANDBY BRAM FROM ACTIVE RAM]; 602 --> 604[PASS CONTROL FROM ACTIVE CONTROL CARD TO STANDBY CONTROL CARD]; 604 --> 606[REWRITE ACTIVE BRAM WITH UPGRADED AND UPDATED VERSION FROM ACTIVE RAM]; 606 --> END([END]);
```

START

LOAD ACTIVE ROM AND STANDBY RAM WITH NEW REVISION 600

UPDATE STANDBY RAM AND STANDBY BRAM FROM ACTIVE RAM 602

PASS CONTROL FROM ACTIVE CONTROL CARD TO STANDBY CONTROL CARD 604

REWRITE ACTIVE BRAM WITH UPGRADED AND UPDATED VERSION FROM ACTIVE RAM 606

END

**Fig. 3**

The flowchart illustrates the update mechanism for the Current u2r mapper. It shows a sequence of calls and data flows between various components:

- db\_update** (oval) calls **Rel 8.5 u2r mapper** (oval) via a solid arrow.
- Rel 8.5 u2r mapper** calls **Rel 8.5 -> 9.1 u2u mapper** (rounded rectangle) via a solid arrow.
- Rel 8.5 -> 9.1 u2u mapper** calls **Rel 9.1 -> 9.2 u2u mapper** (rounded rectangle) via a solid arrow.
- Rel 9.1 -> 9.2 u2u mapper** calls **Rel 9.2 Update** (rectangle) via a solid arrow.
- Rel 9.2 Update** calls **Current u2r mapper** (oval) via a solid arrow.
- Current u2r mapper** calls **RAM Databases** (text) via a solid arrow.
- Rel 8.5 Update** (rectangle) provides data (dotted arrow) to **Rel 8.5 u2r mapper**.
- Rel 9.1 Update** (rectangle) provides data (dotted arrow) to **Rel 9.1 -> 9.2 u2u mapper**.
- Rel 9.2 Update** provides data (dotted arrow) to **Current u2r mapper**.

Legend:

- Call: Solid arrow
- Data: Dotted arrow

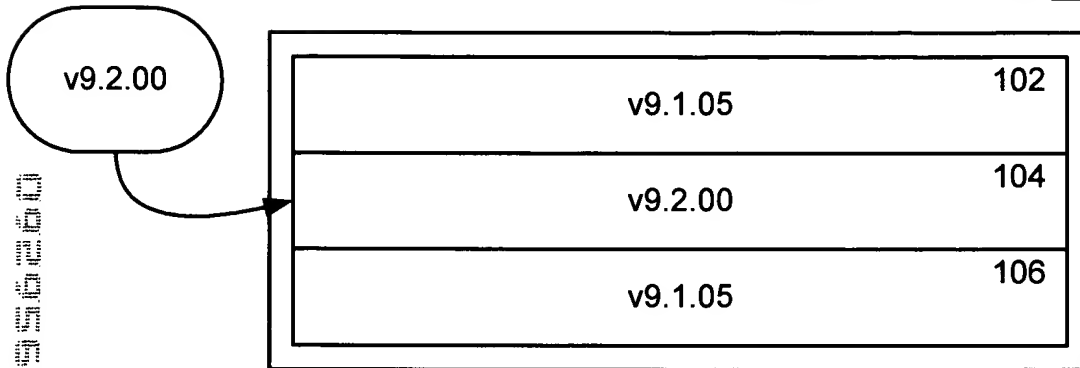
FIG. 4

MEMORY SYSTEM 100

v9.1.05	102
v9.1.05	104
v9.1.05	106

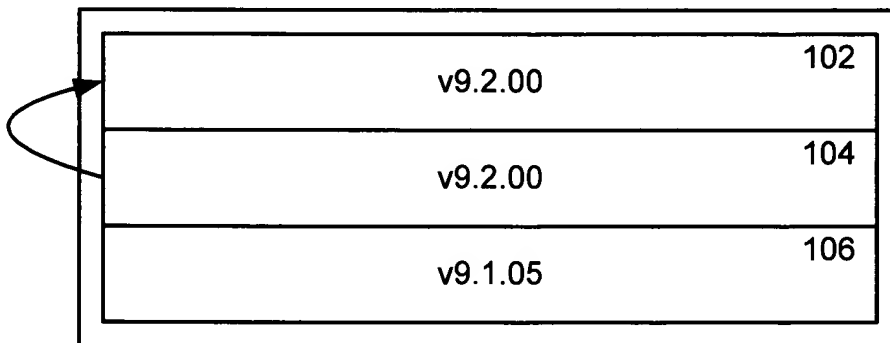
**Fig. 5a**

MEMORY SYSTEM 100



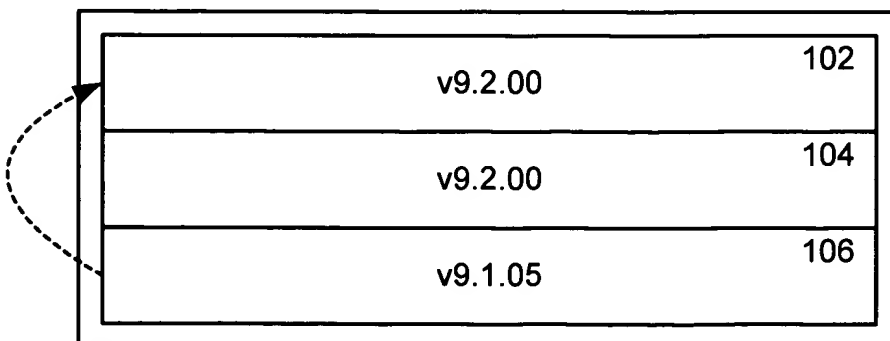
**Fig. 5b**

MEMORY SYSTEM 100



**Fig. 5c**

MEMORY SYSTEM 100



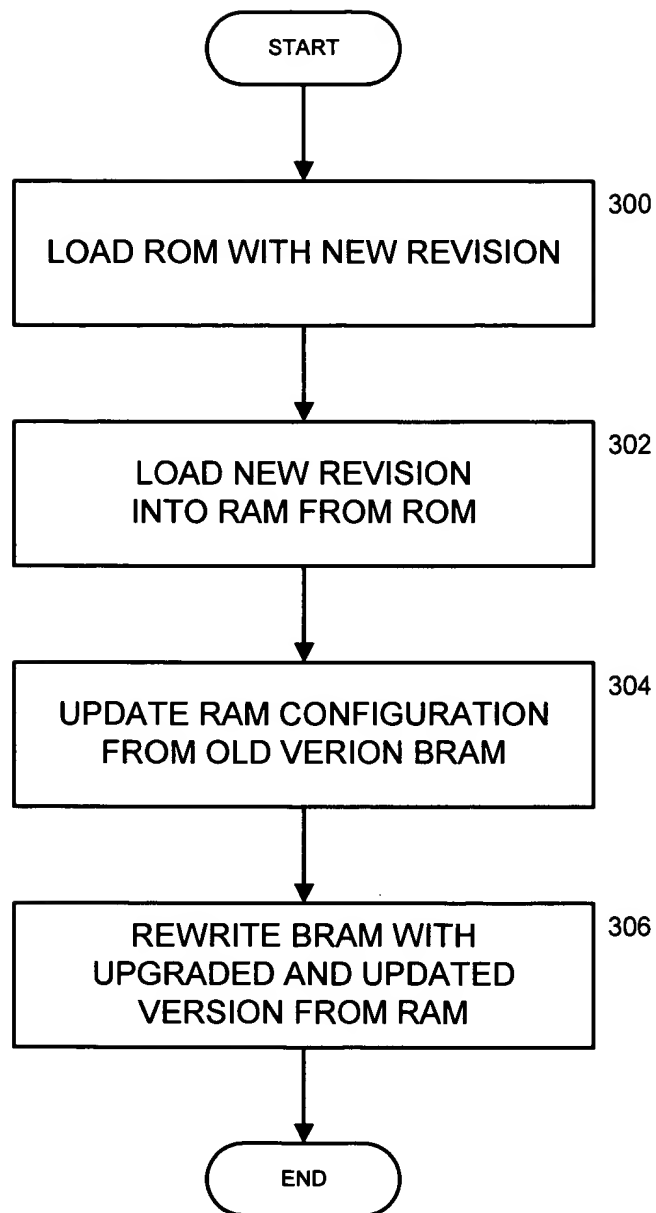
**Fig. 5d**

## MEMORY SYSTEM 100

v9.2.00	102
v9.2.00	104
v9.2.00	106

**Fig. 5e**

[illegible]



**Fig. 6**

65740 06956250

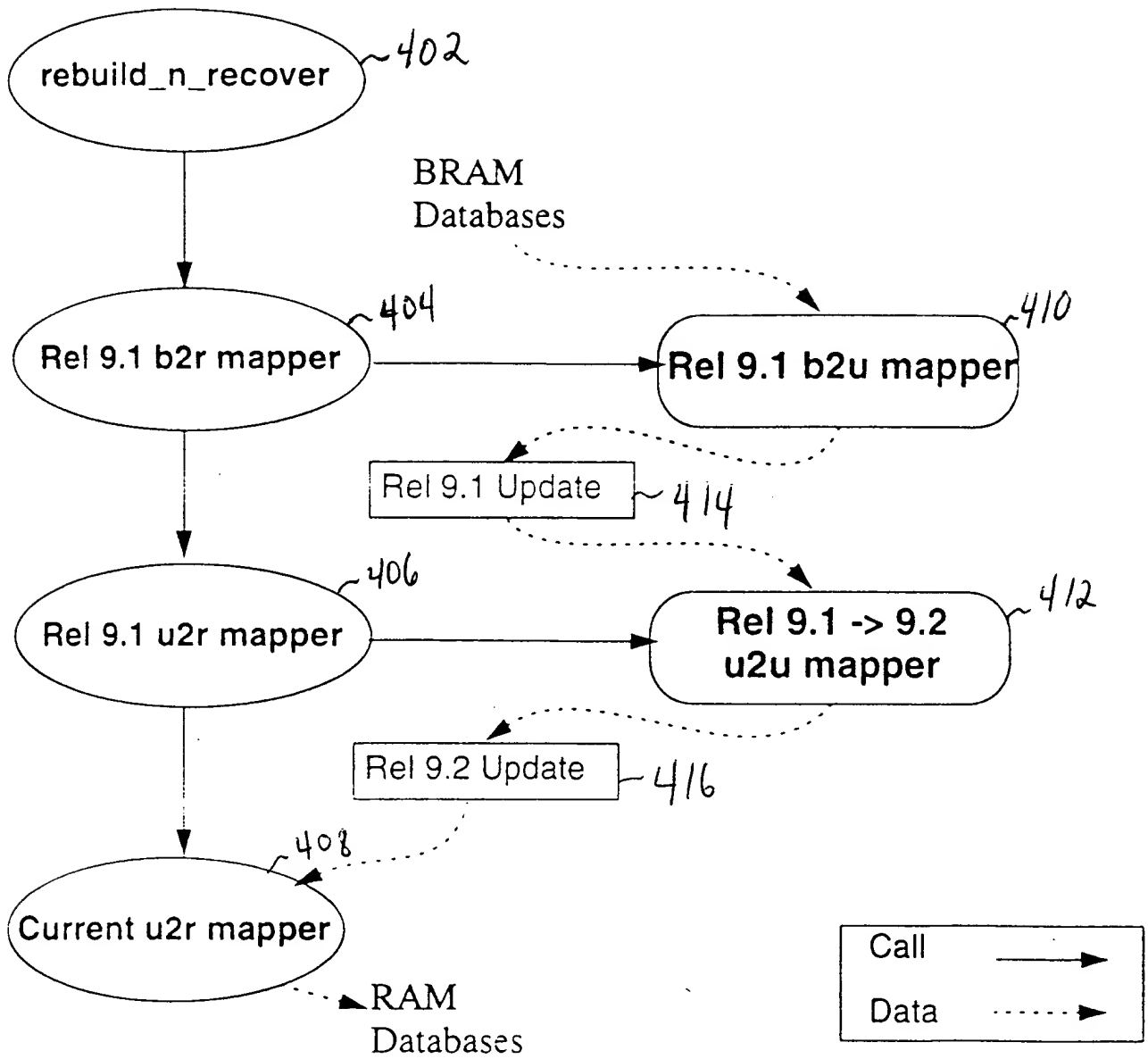


FIG. 7